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(54) Surface winder with pinch cutoff

(57) A surface winder includes first (20) and second (22) winding rolls for winding a web on a center member, a stationary surface (27) spaced from the first winding roll for rolling a center member on the stationary surface, and a pinch pad (24) for pinching the web against a pinch surface upstream of the center member (c) and thereby severing the web. The first winding roll is provided with a high friction surface, and only a short length of web needs to be stretched between the pinch surface (25) and the first roll to tension and sever the web. The severed web is wound on the center member (c) as the center member rolls on the stationary surface.



EUROPEAN SEARCH REPORT

Application Number EP 99 12 2791

		DERED TO BE RELEVA! indication, where appropriate,				
Category	of relevant pa	sages		Relevant to claim	CLASSIFICA APPLICATIO	TION OF THE N (IntCl.7)
A	EP 0 498 052 A (PA CO) 12 August 1992 * the whole docume	PER CONVERTING MACHIN ((1992-08-12) ent *	E 1	,19	B65H19/2 B65H19/3	
`	EP 0 694 020 A (PE 31 January 1996 (1 * column 7, line 3	RINI FABIO SPA) 996-01-31) 8 - column 8, line 36	- 1	,19		
	US 5 137 225 A (BI 11 August 1992 (19 * abstract; figure		1	,19		
1	WO 98 12134 A (C G COM) 26 March 1998 * abstract; figure	BRETTING MANUFACTURING (1998-03-26)	NG			
	SPA (IT)) 29 Septem	INI EVA ;PERINI FABIO nber 1994 (1994-09-29 - page 10, line 10;) 2:	7		
- h	JS 5 603 467 A (RTA	AGIOTTI GUGLIELMO ET	27	,	TECHNICAL I SEARCHED	FIELDS (Int.Cl.7)
1	NL) 18 February 199	7 (1997-02-18) 5 - column 5, line 17;			B65H	
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T	he present search report has t	peen drawn up for all claims				
Р	lace of search	Date of completion of the search			Examiner	
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Application Number

EP 99 12 2791

CLAIMS INCURRING FEES	
The present European patent application comprised at the time of filing more than ten claims.	
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):	
No claims fees have been paid within the prescribed time limit. The present European search report h been drawn up for the first ten claims.	as
LACK OF UNITY OF INVENTION	
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:	
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All further search fees have been paid within the fixed time limit. The present European search report I	nas
been drawn up for all claims.	
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As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.	on
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Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:	,
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None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventional first mentioned in the claims, namely claims:	h on
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LACK OF UNITY OF INVENTION SHEET B

Application Number

EP 99 12 2791

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-26

Surface winder with web pinching surface and movable pinch arm and method thereof

2. Claims: 27-31

Core delivery apparatus

EP 99 12 2791

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-02-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0498052 A	12-08-1992	US 5104055 A AT 126778 T AU 634430 B AU 8798591 A BR 9105165 A CA 2056025 A	14-04-199 15-09-199 18-02-199 13-08-199 29-09-199 06-08-199
		DE 69112371 D DE 69112371 T JP 4303355 A MX 9200500 A ZA 9109353 A	28-09-1999 01-02-1999 27-10-1999 01-08-1999 19-05-1999
EP 0694020 A	31-01-1996	IT 1262046 B AU 6512594 A BR 9406100 A DE 69404142 D DE 69404142 T FI 954449 A GR 3024079 T JP 2948908 B JP 8507997 T KR 202226 B PL 310797 A US 5979818 A AT 155111 T CA 2158751 A CN 1119848 A, B ES 2105683 T IL 108955 A WO 9421545 A RU 2118936 C	18-06-1996 11-10-1996 19-12-1998 14-08-1997 19-02-1998 11-10-1997 13-09-1999 27-08-1996 09-11-1999 15-07-1997 29-09-1994 03-04-1996 29-09-1994 20-09-1998
US 5137225 A	11-08-1992	IT 1233708 B AT 119130 T BR 9003302 A CA 2020723 A,C DE 69017291 D DE 69017291 T EP 0408526 A ES 2069056 T GR 3015252 T IL 94904 A JP 2928598 B JP 3046952 A KR 9311434 B	14-04-1992 15-03-1995 27-08-1991 12-01-1991 06-04-1995 10-08-1995 16-01-1991 01-05-1995 30-06-1995 08-07-1993 03-08-1999 28-02-1991 08-12-1993

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 12 2791

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is In no way liable for these particulars which are merely given for the purpose of information.

09-02-2001

	atent documer d in search rep		Publication date		Patent family member(s)	Publication date
WO	9812134	Α	26-03-1998	US	5772149 A	30-06-19
				AU	4647997 A	14-04-19
				EP	0935577 A	18-08-19
				US	6000657 A	14-12-19
WO	9421545	A	29-09-1994	IT	1262046 B	18-06-19
				AT	155111 T	15-07-199
	-9-			AU .	6512594 A	11-10-199
				BR	9406100 A	19-12-199
	-			CA	2158751 A	29-09-199
				CN	1119848 A,B	03-04-199
				DE	69404142 D	14-08-199
			•	DE	69404142 T	19-02-199
	1.		9	EP	0694020 A	31-01-199
	•	. •		ES	2105683 T	16-10-199
				FI	954449 A	11-10-199
	•		11 to 12 to 12	GR IL	3024079 T	31-10-199
				JP	108955 A	12-09-199
				JP	2948908 B 8507997 T	13-09-199
		·		KR	202226 B	27-08-199
	٠.			PL	310797 A	15-06-199 08-01-199
		•		ŔŪ	2118936 C	20-09-199
			र सुर्वे के हैं के कि	ÜS	5979818 A	09-11-199
US 5	603467	Α	18-02-1997	·IT	1265867 B	12-12-199
				AU	6981194 A	03-01-199
		•	*:	BR	9406768 A	21-02-199
				DE	69407820 D	12-02-199
			. *	DE	69407820 T	03-09-199
				EP	0738231 A	23-10-199
				FI	955835 A	29-01-199
•		1		GR	3026093 T	29-05-199
				JP	9501385 T	10-02-199
•				KR	202227 B	15-06-199
				PL AT	311960 A	18-03-199
				. AT CA	161796 T	15-01-199
				CN	2164870 A 1124947 A,B	22-12-199
		1		ES	2111308 T	19-06-1996
•		İ		IL	109718 A	01-03-1998
				MO	9429205 A	10-06-1993 22-12-1994
1		İ		RU	2120399 C	20-10-1998
						
more details	about this ann	nex : see C	Official Journal of the Europ	ean Patent C	Trice, No. 12/82	
more details	about this and	nex : see C	Official Journal of the Europe	ean Patent C	Pffice, No. 12/82	

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